WHAT IS CLAIMED IS:

1. An information recording/reproducing apparatus characterized in that said apparatus comprises recording data multiplexing means for multiplexing at least encoded video data and encoded audio data, record data storing means for storing data outputted from said recording data multiplexing means, management-information-generation-destined data generating means for generating data required for generating management information for reproducing data recorded on said recording medium on the basis of data obtained from said recording data multiplexing means, management information storing means for storing said management information, management information generating means for generating said management information on the basis of output of said management-information-generation-destined data generating means for writing or reading said management information in or from said management information storing means, recording medium drive processing means for recording or reading on or from the recording medium at least information outputted from said recording data storing means or information outputted from said management information generating means, recording status storing means for storing status information indicative of status of recording processing, and consolidative management means for managing said recording data multiplexing means, said recording data storing means,

said management-information-generation-destined data
generating means, said management information
generating means, said management information storing
means, said recording medium drive processing means and
said recording status storing means, wherein said
consolidative management means is arranged to write or
read out said status information onto or from said
recording status storing means.

2.   An information recording/reproducing
apparatus set forth in claim 1, characterized in that
said apparatus comprises said recording medium drive
processing means for recording or reading out
information on or from a recording medium, record data
demultiplexing means for demultiplexing the encoded
video data and the encoded audio data from the
information read out from said recording medium, said
management-information-generation-destined data
generating means for generating data required for
generating management information for reproducing data
recorded on said recording medium on the basis of the
data obtained from said record data demultiplexing
means, said management information storing means for
storing said management information, said management
information generating means for generating said
management information on the basis of output of said
management-information-generation-destined data
generating means for writing or reading said management
information in or from said management information

storing means, management information reading means for reading out said management information from information read out from said recording medium for outputting said management information to said management information storing means, and consolidative management means for managing said record data demultiplexing means, said management-information-generation-destined data generating means, said management information generating means, said management information storing means, said recording medium drive processing means, said management information reading means and said recording status storing means, wherein said recording medium drive processing means is designed to record the information outputted from said management information generating means on said recording medium, and wherein said consolidative management means is designed to write or read out said status information onto or from said recording status storing means.

3. An information recording/reproducing apparatus set forth in claim 1, characterized in that said recording status storing means is implemented as storing means which holds the stored information even when electric power supply is broken.

4. An information recording/reproducing apparatus set forth in claim 2, characterized in that the information recorded on said recording medium is so processed as to be reproducible information on the

basis of said status information read out from said
recording status storing means.

5.   An information recording/reproducing
apparatus set forth in claim 2, characterized in that
the information read out from said recording medium is
checked on the basis of said status information read
out from said recording status storing means to thereby
delete data from a record unit containing
unreproducible information up to an end of a file.

6.   An information recording/reproducing
apparatus set forth in claim 2, characterized in that a
group of management units composed of information read
out from said recording medium is checked on the basis
of said status information read out from said recording
status storing means to thereby delete the management
unit including the record unit containing
unreproducible information, and that those management
units which include a starting one of said management
unit group up to the record unit containing said
unreproducible information are defined as a first
management unit group while the management units
including the record unit containing said
unreproducible information up to the end of said
management unit group are defined as a second
management unit group.

7.   In an information recording/reproducing
apparatus set forth in claim 2, an editor apparatus
characterized in that the information outputted from

said recording data storing means is recorded in the form of a data file on said recording medium with the information outputted from said management information generating means being stored on said recording medium as first and second plural sets of management information files, and that said apparatus comprises file system manage processing means for managing the files so that the file can be written or read out on or from said recording medium in a predetermined file format or a new file can be generated from two files, first management information file read processing means for reading said first set of management information file from said file system manage processing means, first management information storing means for storing said first set of management information read out from said first management information file read processing means as first management information, management information file write processing means for reading out said first management information from said first management information storing means to thereby write said first management information in said file system manage processing means as said first set of management information file, second management information file read processing means for reading out said second set of management information file from said file system manage processing means, second management information storing means for storing said second set of management information read out from said second management

information file read processing means as second

management information, combine processing means for

generating new management information from the

information stored in said first management information

storing means and the information stored in said second

management information storing means to thereby write

said new management information in said first   .

management information storing means, wherein said data

file and said plural sets of management information

files are combined in one set.

8.   In an information recording/reproducing

apparatus set forth in claim 7, an editor apparatus

characterized in that plural sets of said data file and

said management information file recorded on said

recording medium include two or more sets of said data

file and said management information file and that said

two or more sets of said data file and said management

information file are combined in one set.

9.   An information recording/reproducing

apparatus set forth in claim 7, characterized in that a

first set of said data file and said management

information file recorded on said recording medium are

checked on the basis of said status information read

out from said recording status storing means to thereby

alter an identifier of said first set to a second

identifier in the case where the unreproducible

information is included in said first set, wherein a

new data file and a new management information file to

be recorded on said recording medium is recorded on
said recording medium as a first set of the new data
file and the new management information file.

10.   A recording apparatus for recording
video/audio data on a recording medium, comprising
video encoding means for encoding an analog video
signal, audio encoding means for encoding an analog
audio signal, video/audio/management information
multiplexing means for generating data required for
generating management information data for making
random access to said recording medium and effectuating
special reproduction of said recording medium for
thereby multiplexing the data required for generating
said management information data, encoded video data
outputted from said video encoding means and encoded
audio data outputted from said audio encoding means, a
stream buffer for storing multiplexed data outputted
from said video/audio/management information
multiplexing means by a predetermined amount for
writing said multiplexed data onto said recording
medium as a bit stream file, a volatile management
information expansion memory for storing said
management information data, management information
generating means for generating management information
data from the data required for generation of said
management information data to thereby write said
management information data in said volatile management
information expansion memory while writing said

management information data onto said recording medium
as a management information file, management
information expanding means for reading out said
management information file from said recording medium
to thereby expand said management information file on
said volatile management information expansion memory,
recording medium drive means for directly
reading/writing data from/onto said recording medium, a
nonvolatile recording status memory which is a
nonvolatile memory for storing process of recording
processing, and consolidative management means for
managing consolidatively said video encoding means,
said audio encoding means, said video/audio/management
information multiplexing means, said stream buffer,
said management information generating means, said
management information expanding means, said volatile
management information expansion memory and said
recording medium drive means, to thereby write/read the
status of processings thereof in/from said nonvolatile
recording status memory.

11.   A recording information repairing apparatus,
characterized in that said apparatus comprises
video/audio/management information demultiplexing means
for reading out a bit stream file recorded on a
recording medium to thereby demultiplex encoded video
data, encoded audio data and data required for
generating management information data, a volatile
management information expansion memory for storing

said management information data, management

information generating means for generating management

information data from data required for generation of

said management information data to thereby write said

management information data in said volatile management

information expansion memory while writing said

management information data onto said recording medium

as a management information file, management

information expanding means for reading out said

management information file from said recording medium

to thereby expand said management information file on

said volatile management information expansion memory,

recording medium drive means for directly

reading/writing data from/onto said recording medium,

a nonvolatile recording status memory which

is a nonvolatile memory for storing process of

recording processing, and consolidative management

means for managing consolidatively said

video/audio/management information demultiplexing

means, said management information generating means,

said management information expanding means, said

volatile management information expansion memory and

said recording medium drive means, to thereby

write/read the status of processings thereof in/from

data of said nonvolatile recording status memory.

12.   An editor apparatus, characterized in that

said apparatus comprises a recording medium having an

area for recording plural sets of management

information files for managing an encoded picture data file and a picture data file, recording medium drive processing means for writing/reading out information onto/from said recording medium, file system manage processing means for writing/reading out a file onto/from said recording medium in a predetermined file format and/or combining two files, management information file read processing means for commanding reading of said management information file from said file system manage processing means, a management information expansion memory for storing therein said management information file read out from said management information file read processing means as management information expansion data, management information file write processing means for reading out said management information expansion data from said management information expansion memory to command writing of said management information expansion data in the file system manage processing means as said management information file, backup management information file read processing means for commanding reading of a backup management information file from said file system manage processing means, said backup management information file being a file of a same format as said management information file but differing from said management information file, a backup management information expansion memory for storing therein said backup management information file

read out from said backup management information file
read processing means as backup management information
expansion data, and combine processing means for
combining integrally the information of said management
information expansion memory and the information of
said backup management information expansion memory to
write the combined information in said management
information expansion memory, wherein plural sets of
said picture data files and said management information
files are combined together into one set.

13.   In an editor apparatus set forth in claim 3,
a recording apparatus characterized in that said
apparatus comprises moving picture compression-encode
processing means for performing compression-encoding of
analog moving pictures, sound compression-encode
processing means for performing compression-encoding of
analog sound, moving picture/sound multiplex processing
means for multiplexing compression-encoded moving
picture data outputted from said moving picture
compression-encode processing means and compression-
encoded sound data outputted from said sound
compression-encode processing means, management-
information-expansion data generate processing means
for acquiring information required for management
information file generation from said moving
picture/sound compression-multiplex processing means to
write additionally said information in management
information expansion data expanded on said management

information expansion memory as management information expansion data, a stream buffer for storing once temporarily a multiplexed stream outputted from said moving picture/sound compression-multiplex processing means, stream buffer managing means for commanding writing of said multiplexed data into said file system managing means from said stream buffer as a multiplexed stream file, a nonvolatile status management memory which is a nonvolatile memory for storing process stage statuses of recording processing, repair processing means for repairing format of said management information file or said multiplexed stream file to restore a normal format thereof when said management information file or said multiplexed stream file is abnormal, and activate processing means designed upon activation thereof to supervise said nonvolatile status management memory, issue a command for expanding said management information file on said management information expansion memory in dependence on status, command said repair processing means to repair the management information file and said multiplexed stream file, command said repair processing means to alter names of the management information file and said multiplexed stream file, and combine plural sets of said picture data files and said management information files into one set.

14.   An information recording/reproducing method for recording picture/sound data on the basis of said

management information, characterized in that control
means is provided for controlling operations in general
inclusive of said recording and reproduction and
storing means is provided for storing statuses, wherein
said control means is so arranged as to store
sequentially in said storing means status
discriminating information indicative of operating
statuses such as recording, reproduction, edition and
the like, and wherein upon activation, said control
means reads out said status discriminating information
from said storing means to analyze said picture/sound
data in accordance with said status discriminating
information for thereby correcting said management
information and said picture/sound data themselves into
information and data each of proper format.

15.   An information recording/reproducing method
set forth in claim 14, characterized in that when it is
decided on the basis of said status discriminating
information read out from said storing means that
information succeeding to a specific location of said
picture/sound data is not reflected yet in said
management information, analysis is performed for said
picture/sound data from the location where said
picture/sound data is not reflected in said management
information by acquiring the information from said
management information.

16.   An information recording/reproducing method
set forth in claim 14, characterized in that when it is

decided on the basis of said status discriminating information read out from said storing means that an intermediate portion of said picture/sound data is not reflected yet in said management information, analysis is performed for said picture/sound data from a leading location thereof.

17.   An information recording/reproducing apparatus in which the information recording/reproducing method set forth in claim 14 is adopted.

18.   An information recording/reproducing method set forth in claim 14, characterized in that when improperness is detected in an intermediate portion of said picture/sound data in the course of picture/sound data analyzing operation performed in dependence on said status discriminating information, a management-dedicated subunit of said picture/sound data which contains said improperness is deleted.

19.   An information recording/reproducing method set forth in claim 14, characterized in that when improperness is detected in an intermediate portion of said picture/sound data in the course of picture/sound data analyzing operation performed in dependence on said status discriminating information, said management information is so updated that a management-dedicated subunit of said picture/sound data containing said improperness can be handled independently as a management-dedicated unit of a higher rank, and that

said management-dedicated unit handled independently is
handled as an attribute not to be outputted for
reproduction.

20.   An information recording/reproducing
apparatus in which the information
recording/reproducing method set forth in claim 18 is
adopted.

21.   An information recording/reproducing
apparatus in which the information
recording/reproducing method set forth in claim 19 is
adopted.

22.   An information recording/reproducing method
characterized in that said method comprises a recording
data multiplexing step of multiplexing at least encoded
video data and encoded audio data, a record data
storing step of storing data outputted from said
recording data multiplexing step, a management-
information-generation-destined data generating step of
generating data required for generating management
information for reproducing data recorded on said
recording medium, a management information generating
step of generating said management information on the
basis of output from said management-information-
generation-destined data generating step, a management
information storing step of storing said management
information, a step of reading out said management
information stored in said management information
storing step, a recording medium drive processing step

of recording/reading on/from a recording medium at least the information stored in said recording data storing step or the information stored in said management information storing step, a recording status storing step of storing status information indicative of statuses of recording processing, and a step of reading out said status information stored in said recording status storing step.

23.   An information recording/reproducing method set forth in claim 22, characterized in that said method comprises said recording medium drive processing step of recording information on said recording medium or reading the information from said recording medium, a record data demultiplexing step of demultiplexing the encoded video data and the encoded audio data from the information read out from said recording medium, said management-information-generation-destined data generating step of generating data required for generating management information for reproducing data recorded on said recording medium on the basis of the data obtained from said record data demultiplexing step, said management information generation step of generating said management information on the basis of the output from said management-information-generation-destined data generating step, said management information storing step of storing said management information, a step of outputting said management information to the management information storing step

from said management information generation step or reading out said management information stored in said management information storing step, a management information reading step of reading out said management information from the information read from said recording medium to thereby output said management information to said management information storing step, a step of recording the information outputted from said management information generation step on said recording medium, a recording status storing step of storing status information indicative of statuses of recording processing, and a step of reading out said status information stored in said recording status storing step.